

## 8-Hour Ozone Standard

*Automobiles on the road in the U.S. today are responsible for 30% of the nitrogen oxide (NOx) pollution that causes formation of smog. Although cars are cleaner today than they were 20 years ago, people are driving more than ever before. The number of miles driven by Americans has risen 150% since 1970.*

### Air Quality Terms and Abbreviations

**DAQ** – Division for Air Quality in the Natural Resources and Environmental Protection Cabinet

**CAAA**- Clean Air Act Amendment 1990-Legislation that set the federal air quality standards.

**NAAQS**- National Ambient Air Quality Standards- From the CAAA to develop the one & 8-Hour standard.

**MPO** -Metropolitan Planning Organization- Cities over 50,000 population. KY has seven.

**TMA**-Transportation Management Area-Cities over 200,000 Population. KY has three.

**MSA**-Metropolitan Statistical Area-Generally, much larger than the MPO area, especially the TMAs.

**VMT**-Vehicle Miles Traveled-Factor created by transportation models or HPMS to measure the amount of travel in a city or county.

**HPMS**-Highway Performance Management System-A program developed by FHWA to inventory the VMT statewide and project to 2020. Division of Planning develops an annual submittal to FHWA. The accuracy of the data in and out of this program is improving significantly each year. Data previous to 1996 is flawed; thereby underestimating the present and projected VMT, particularly at the individual county level. This data was used to calculate our current conformity budgets.

**Conformity**- Requirement of CAAA to ensure that new transportation investments do not jeopardize air quality in nonattainment/maintenance areas. Conformity is a series of calculations, including transportation and MOBILE models, required to demonstrate that future emissions will be less than the budget.

**Budget**-The amount of pollution allowed (tons/day) to meet the NAAQS. Existing budgets were established using 1996 or earlier HPMS data. Budgets are established by DAQ for all sectors: Mobile (Highway), Mobile-Off Road, Point, and Area. Budgets are included in the SIP.

**SIP**- State Implementation Plan- Quantifies the air quality budgets and establishes controls measures for all sources.

**One-Hour Standard**-Episodic monitor regulation for measuring air quality. Uses one hour of monitor readings. Recently reinstated since 8-hour standard was delayed due to court proceedings.

**8-Hour Standard**-Uses the ongoing 8-hour average of monitor readings. Areas are designated by using 3 years of monitoring data that exceeds the 0.085ppm threshold standard.

**MOBILE Model**- Computer program developed by EPA to calculate emission rates. Model is to be calibrated to be site specific. Basic inputs include VMT and speed. Output is emission rates (tons per day). The present model is MOBILE 5a; MOBILE 6 is expected Spring, 2001.

**Transport**- When pollution travels in the atmosphere from its source to other locations due to weather patterns or geography. This is a common phenomenon impacting air quality readings in many KY counties and across the eastern US.